Futaba.

GYA460 6-axis Flight Control **Quick Reference**



Thank you for purchasing a GYA460 flight control.

This document summarizes the simple method of using the GYA460.

For the detailed usage method and precautions, refer to the GYA460 6-axis Flight Control instruction manual.

*For first flight aircraft, before mounting the GYA460 have a veteran flier make flight adjustments without the GYA460 connected.



Aileron

Elevator

Rudder

Aileron2

The GYA460 can even be used with servos other than S.BUS.

setting of each servo is unnecessary.

S.BUS channel



- GYA460 : MODE ⇔ Extension Cord ⇔ RECEIVER : CH5
- GYA460 : AIL1 ⇔ Extension Cord ⇔ RECEIVER : CH1(AIL)
- GYA460 : E/R/A2 ⇔ 3-Signal Cord ⇔ White : ELE Red : RUD Black : AIL2

vibration.

fore mounting.

• GYA460 : S.BUS ⇔ Extension Cord ⇔ RECEIVER : S.BUS Transmitter function 1CH: AIL1 2CH: ELE 3CH: THR 4CH:RUD 5CH:GEAR 6CH:AIL2

S.BUS Port

S.BUS

Receiver

Mount the gyro facing forward inside the fuselage. Make sure the gyro is Firmly stick with the double side mounted level inside the tape supplied. Mount at a level fuselage. place near the center of gravity of the fuselage where there is little The label of the GYA460 faces up-*Depending on the airframe material such ward in the default *When mounting the to the side of the as balsa, etc., the adhesive strength of the airframe or when the label plate is at the condition. double sided tape may drop. In the case bottom, perform the mounting direction of mounting on a less adhesive surface, setting described on pages 17 and 18 of prepare the surface the best possible bethe instruction manual.

Extension

Cord

MOUNTING to the AIRPLANE

TRANSMITTER SETTING

Assign transmitter CH5 to a 3-position switch, and set the function to "GEAR" . This setting enables use of the Beginner MODE, GYRO-OFF MODE, and GYRO-MODE by switching a switch. When you want to change the direction of operation of the switch, perform reverse setting at the transmitter.



When there are no 3-position switch in a transmitter.



In the case of a beginner, the side at which the CH5 end point (EPA, ATV) switch is pushed forward should be made 0% and the mode should be switched between the GYRO OFF mode and Beginner mode.

GYRO GAIN and DIRECTION

Aileron, elevator, and rudder gyro gain adjustment and gyro operating direction are set by flight control trimmer. The center of the scale becomes the gyro low gain position, and gyro gain adjustment and gyro operating

direction setting are performed by turning the trimmers to the left or right.



Gain is too high
*
Hunting
*
Lower Gain

Adjust the gyro gain so that hunting (deflection of the aircraft in small increments) does not occur in the control axis direction. The gyro gain is different depending on the area of the aircraft rudder (aileron/elevator),

air speed. Initially try changing the gain in 5% steps. If hunting is excessive, the aircraft may be damaged. Hunting tends to stop when the airspeed is lowered.

PRE-FLIGHT SETTING

- ① Set the aileron, elevator, and rudder gyro gain trimmers to about 45°.
- (2) In the state in which the gyros are operative, move the transmitter sticks and check that each control surface moves in the proper direction. If a control surface moves in the opposite direction of stick operation, Reverse that channel in the transmitter.
- ③ Without any transmitter input, turn the model on the aileron, elevator, and rudder rotating the model and check if each control surface moves in the direction opposite the rotating direction (direction in which the plane returns). If the direction of the steering angle correction rudder is reversed, change the trimmer to 45° of the opposite side.

Tilt the airplane to the right on the ground and check that the rudder operate to the left.

Tilt the airplane to the left on the ground and check that the ailerons operate to the right.



FLIGHT SETTING

- ① Turn on the power in the GYRO OFF -MODE or GYRO-MODE.
- **②** Fly the plane in the GYRO OFF-MODE or GYRO-MODE and adjust the trimmers.
- **3** Land the plane and turn off the gyro power.
- **④** Turn on the gyro power again in the GYRO OFF-MODE or GYRO-MODE. This memorizes the trim position at the gyro.

FUTABA CORPORATION 1060 Yabutsuka, Chosei-mura, Chosei-gun, Chiba-ken, 299-4395, Japan Phone: +61 475 32 6962, Facsimile: +61 475 32 6963